

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P298075

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3401.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

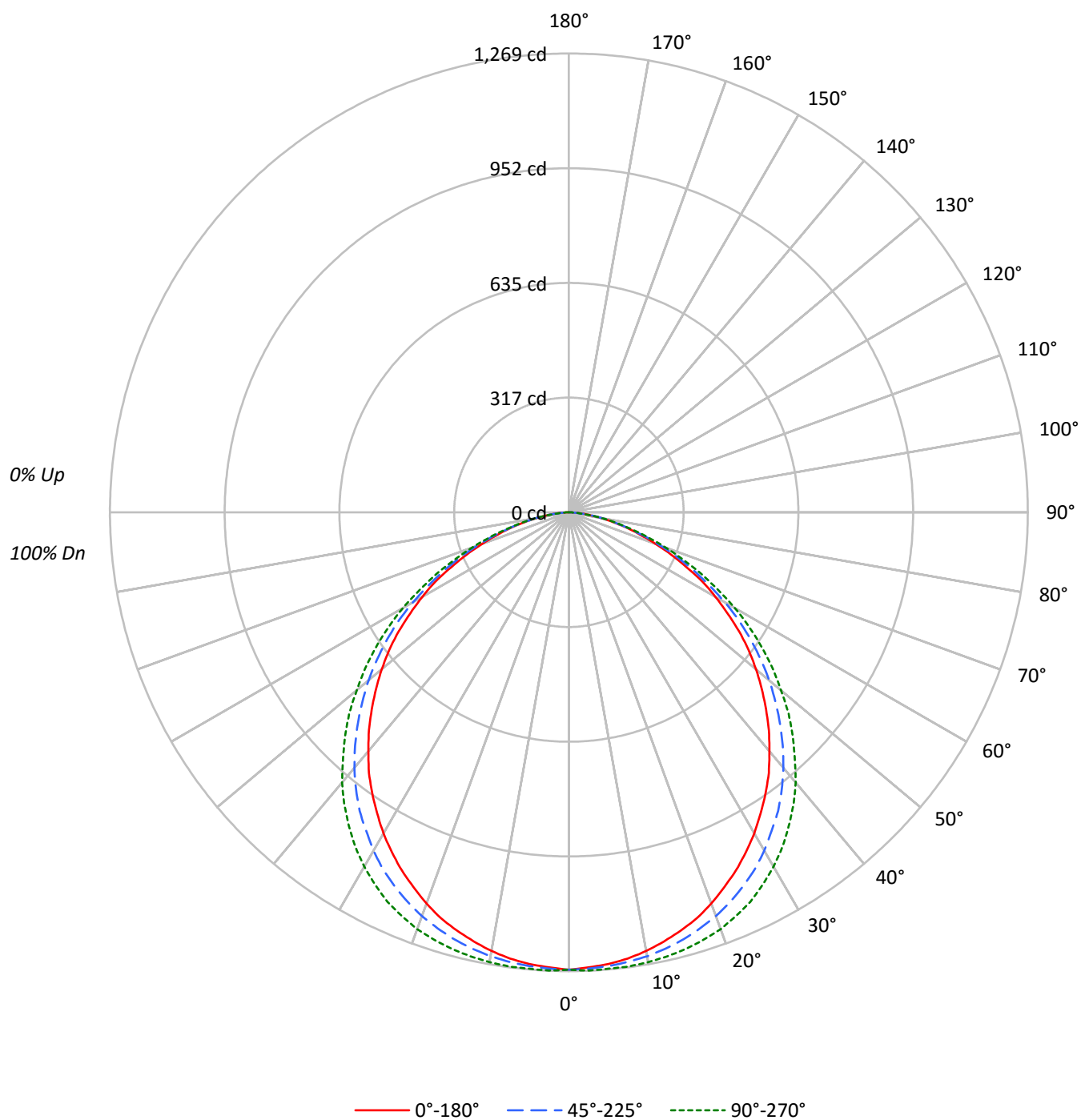
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3404	3404	3404
5°	3387	3402	3422
10°	3366	3407	3451
15°	3335	3407	3483
20°	3298	3402	3512
25°	3245	3386	3528
30°	3186	3356	3515
35°	3115	3314	3482
40°	3029	3241	3427
45°	2933	3142	3330
50°	2828	3027	3203
55°	2697	2877	3058
60°	2522	2680	2857
65°	2285	2425	2576
70°	2017	2117	2232
75°	1732	1770	1847
80°	1390	1418	1447
85°	1019	905	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	3.5
10°-20°	345.3	10.2
20°-30°	525.2	15.4
30°-40°	628.4	18.5
40°-50°	635.3	18.7
50°-60°	546.7	16.1
60°-70°	377.4	11.1
70°-80°	183.0	5.4
80°-90°	39.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	990.4	29.1
0°-40°	1618.8	47.6
0°-60°	2800.8	82.4
0°-90°	3401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1254	1256	1260	1265	1267	119
15°	1197	1205	1223	1241	1250	338
25°	1093	1106	1140	1175	1188	503
35°	948	965	1009	1045	1060	593
45°	771	785	826	860	875	595
55°	575	584	613	641	652	512
65°	359	364	381	397	405	357
75°	167	163	170	176	178	177
85°	33	33	29	29	29	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1265.0	1265.0	1265.0	1265.0	1265.0
2.5°	1259.5	1259.5	1263.1	1266.8	1268.6
5°	1254.0	1255.8	1259.5	1265.0	1266.8
7.5°	1244.8	1246.7	1254.0	1263.1	1266.8
10°	1232.0	1235.7	1246.7	1257.6	1263.1
12.5°	1215.5	1222.9	1235.7	1250.3	1257.6
15°	1197.2	1204.6	1222.9	1241.2	1250.3
17.5°	1177.1	1184.4	1206.4	1230.2	1239.3
20°	1151.5	1162.5	1188.1	1215.5	1226.5
22.5°	1122.2	1136.8	1166.1	1195.4	1208.2
25°	1092.9	1105.7	1140.5	1175.3	1188.1
27.5°	1059.9	1074.6	1113.0	1147.8	1160.6
30°	1025.2	1039.8	1080.1	1118.5	1131.3
32.5°	986.7	1005.0	1043.5	1083.7	1098.4
35°	948.3	964.7	1008.7	1045.3	1059.9
37.5°	908.0	922.6	966.6	1005.0	1019.7
40°	862.2	878.7	922.6	961.1	975.7
42.5°	818.3	834.8	875.0	911.7	924.5
45°	770.7	785.3	825.6	860.4	875.0
47.5°	723.1	739.6	774.4	809.1	823.8
50°	675.5	688.3	723.1	756.1	765.2
52.5°	626.1	637.1	668.2	697.5	710.3
55°	574.8	584.0	613.3	640.7	651.7
57.5°	519.9	530.9	558.3	578.5	591.3
60°	468.6	474.1	497.9	518.1	530.9
62.5°	417.4	419.2	437.5	457.7	465.0
65°	358.8	364.3	380.8	397.2	404.6
67.5°	305.7	311.2	324.0	336.8	342.3
70°	256.3	256.3	269.1	278.3	283.7
72.5°	206.9	208.7	217.8	223.3	228.8
75°	166.6	162.9	170.2	175.7	177.6
77.5°	124.5	122.7	128.1	130.0	133.6
80°	89.7	89.7	91.5	93.4	93.4
82.5°	58.6	58.6	60.4	56.7	54.9
85°	33.0	33.0	29.3	29.3	29.3
87.5°	11.0	11.0	11.0	12.8	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)